

Attorney Docket No. 60141.0041USU1

MERCHANT &amp; GOULD P.C.

United States Patent Application

## COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor I hereby declare that: my residence, post office address and citizenship are as stated below next to my name, that

I verily believe I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: Methods Using Gene Trapped Stem Cells fro Marking Pathways of Stem Cell Differentiation and Making and Isolating Differentiated Cells

The specification of which

- a. ☐ is attached hereto  
b. ☒ was filed on October 16, 2003 as application serial no. 10/685,693 and was amended on (if applicable) (in the case of a PCT-filed application) described and claimed in international no. filed and as amended on (if any), which I have reviewed and for which I solicit a United States patent.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119/365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on the basis of which priority is claimed:

- a. ☒ no such applications have been filed.  
b. ☐ such applications have been filed as follows:

FOREIGN APPLICATION(S), IF ANY, CLAIMING PRIORITY UNDER 35 USC § 119			
COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	DATE OF ISSUE (day, month, year)

ALL FOREIGN APPLICATION(S), IF ANY, FILED BEFORE THE PRIORITY APPLICATION(S)			
COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	DATE OF ISSUE (day, month, year)

I hereby claim the benefit under Title 35, United States Code, § 120/365 of any United States and PCT international application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. APPLICATION NUMBER	DATE OF FILING (day, month, year)	STATUS (patented, pending, abandoned)

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below:

U.S. PROVISIONAL APPLICATION NUMBER	DATE OF FILING (Day, Month, Year)
60/418,333	16 October 2002

Attorney Docket No. 60141.0041USU1

I acknowledge the duty to disclose information that is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, § 1.56 (reprinted below):

**§ 1.56 Duty to disclose information material to patentability.**

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

(1) prior art cited in search reports of a foreign patent office in a counterpart application, and

(2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.

(b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and

(1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim;

or

(2) It refutes, or is inconsistent with, a position the applicant takes in:

(i) Opposing an argument of unpatentability relied on by the Office, or

(ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

(c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

(1) Each inventor named in the application:

(2) Each attorney or agent who prepares or prosecutes the application; and

(3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.

(e) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information known to the person to be material to patentability, as defined in paragraph (b) of this section, which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

Attorney Docket No. 60141.0041USU1

I hereby appoint the following attorney(s) and/or patent agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith:

Ali, M. Jeffer	Reg. No. 46,359	Lauer, Deakin T.	Reg. No. 47,735
Altera, Allan G.	Reg. No. 40,274	Leach III, Thomas J.	Reg. No. 53,188
Anderson, Gregg I.	Reg. No. 28,828	Leonard, Christopher J.	Reg. No. 41,940
Batzli, Brian H.	Reg. No. 32,960	Lewis, George C.	Reg. No. 53,214
Beard, John L.	Reg. No. 27,612	Liepa, Mara E.	Reg. No. 40,066
Bennett-Paris, Joseph M.	Reg. No. 47,226	Maly, John W.	Reg. No. 55,423
Berns, John M.	Reg. No. 43,496	McDonald, Daniel W.	Reg. No. 32,044
Blackburn, Murrell W.	Reg. No. 50,881	McIntyre, Jr., William F.	Reg. No. 44,921
Bortolotti, Rebecca	Reg. No. 51,488	Mueller, Douglas P.	Reg. No. 30,300
Brown, Jeffrey C.	Reg. No. 41,643	Nelson, Anna M.	Reg. No. 48,935
Bruess, Steven C.	Reg. No. 34,130	Pauly, Daniel M.	Reg. No. 40,123
Burke, John E.	Reg. No. 35,836	Peterson, Kyle T.	Reg. No. 46,989
Byrne, Linda M.	Reg. No. 32,404	Phillips, John B.	Reg. No. 37,206
Clifford, John A.	Reg. No. 30,247	Randall, Joshua N.	Reg. No. 50,719
Cook, Jeffrey	Reg. No. 48,649	Reich, John C.	Reg. No. 37,703
Daignault, Ronald A.	Reg. No. 25,968	Reiland, Earl D.	Reg. No. 25,767
Daley, Dennis R.	Reg. No. 34,994	Schmaltz, David G.	Reg. No. 39,828
Daley, William J.	Reg. No. 52,471	Schuman, Mark D.	Reg. No. 31,197
Daulton, Julie R.	Reg. No. 36,414	Schumann, Michael D.	Reg. No. 30,422
Deffner, Mark E.	Reg. No. 55,103	Scull, Timothy B.	Reg. No. 42,137
DeMaster, E. Eric	Reg. No. 55,107	Sebald, Gregory A.	Reg. No. 33,280
DeVries Smith, Katherine M.	Reg. No. 42,157	Skoog, Mark T.	Reg. No. 40,178
DiPietro, Mark J.	Reg. No. 28,707	Sorge, Keith M.	Reg. No. 50,865
Doscotch, Matthew A.	Reg. No. 48,957	Stewart, Alan R.	Reg. No. 47,974
Edell, Robert T.	Reg. No. 20,187	Stoll-DeBell, Kirstin L.	Reg. No. 43,164
Epp Ryan, Sandra	Reg. No. 39,667	Strouse, Thomas J.	Reg. No. 53,950
Fitzsimmons, Karen A.	Reg. No. 50,470	Sullivan, Timothy	Reg. No. 47,981
Frost, Roger T.	Reg. No. 22,176	Swenson, Erik G.	Reg. No. 45,147
Golla, Charles E.	Reg. No. 26,896	Trembath, Jon R.	Reg. No. 38,344
Gorman, Alan G.	Reg. No. 38,472	Underhill, Albert L.	Reg. No. 27,403
Gotfredson, Garen J.	Reg. No. 44,722	Wahl, John R.	Reg. No. 33,044
Gould, John D.	Reg. No. 18,223	Wang, Susan L.	Reg. No. 53,742
Gresens, John J.	Reg. No. 33,112	Welter, Paul A.	Reg. No. 20,890
Haack, John L.	Reg. No. 36,154	Wier, David D.	Reg. No. 48,229
Hamre, Curtis B.	Reg. No. 29,165	Williams, Douglas J.	Reg. No. 27,054
Hartman, Jodi L.	Reg. No. 55,251	Wong, Bryan A.	Reg. No. 50,836
Hennings, Mark	Reg. No. 48,982	Zeuli, Anthony R.	Reg. No. 45,255
Hertzberg, Brett A.	Reg. No. 42,660		
Hillson, Randall A.	Reg. No. 31,838		
Hope, Leonard J.	Reg. No. 44,774		
Hornsby, III, Alton	Reg. No. 47,299		
Johns, Nicholas P.	Reg. No. 48,995		
Johnston, Scott W.	Reg. No. 39,721		
Jordan, III, George	Reg. No. 41,880		
Kalinsky, Robert A.	Reg. No. 50,471		
Kettelberger, Denise	Reg. No. 33,924		
Knearl, Homer L.	Reg. No. 21,197		
Korver, Joshua W.	Reg. No. 51,894		
Kowalchyk, Alan W.	Reg. No. 31,535		
Kowalchyk, Katherine M.	Reg. No. 36,848		
Lamberty, Michael	Reg. No. 50,760		
Larson, James A.	Reg. No. 40,443		


I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/ organization who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Merchant & Gould P.C. to the contrary.

Attorney Docket No. 60141.0041USU1

I understand that the execution of this document, and the grant of a power of attorney, does not in itself establish an attorney-client relationship between the undersigned and the law firm Merchant & Gould P.C., or any of its attorneys.  
Please direct all correspondence in this case to Merchant & Gould P.C. at the address indicated below:

Merchant & Gould P.C.  
P.O. Box 2903  
Minneapolis, MN 55402-0903

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

2	<b>Full Name Of Inventor</b>	<b>Family Name</b> West	<b>First Given Name</b> Michael	<b>Second Given Name</b>
0	<b>Residence &amp; Citizenship</b>	<b>City</b> Southborough	<b>State or Foreign Country</b> MA	<b>Country of Citizenship</b> USA
1	<b>Mailing Address</b>	<b>Address</b> 107 Middle Road	<b>City</b> Southborough	<b>State &amp; Zip Code/Country</b> MA 01772
<b>Signature of Inventor 201:</b>				<b>Date:</b>
2	<b>Full Name Of Inventor</b>	<b>Family Name</b> Chapman	<b>First Given Name</b> Karen	<b>Second Given Name</b> B.
0	<b>Residence &amp; Citizenship</b>	<b>City</b> Southborough	<b>State or Foreign Country</b> MA	<b>Country of Citizenship</b> USA
2	<b>Mailing Address</b>	<b>Address</b> 107 Middle Road	<b>City</b> Southborough	<b>State &amp; Zip Code/Country</b> MA 01772
<b>Signature of Inventor 202:</b> 				<b>Date:</b> 6/8/04

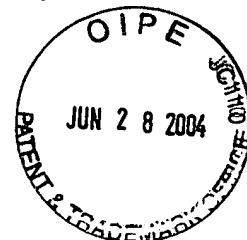
**23552**

PATENT TRADEMARK OFFICE

Attorney Docket No. 60141.0041USU1

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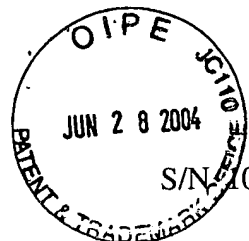


I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

2	Full Name Of Inventor	Family Name West	First Given Name Michael	Second Given Name
0	Residence & Citizenship	City Southborough	State or Foreign Country MA	Country of Citizenship USA
1	Mailing Address	Address 107 Middle Road	City Southborough	State & Zip Code/Country MA 01772
Signature of Inventor 201:			Date: 6-9-04	
2	Full Name Of Inventor	Family Name Chapman	First Given Name Karen	Second Given Name B.
0	Residence & Citizenship	City Southborough	State or Foreign Country MA	Country of Citizenship USA
2	Mailing Address	Address 107 Middle Road	City Southborough	State & Zip Code/Country MA 01772
Signature of Inventor 202:			Date:	

23552

PATENT TRADEMARK OFFICE



S/N 10/685,693

PATENTIN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	West et al.	Examiner:	Not yet assigned
Serial No.:	10/685,693	Group Art Unit:	Not yet assigned
Filed:	October 16, 2003	Docket No.:	60141.0041USU1
Title:	METHOD USING GENE TRAPPED STEM CELLS FOR MAKING PATHWAYS OF STEM CELL DIFFERENTIATION AND MAKING AND ISOLATING DIFFERENTIATED CELLS		

## CERTIFICATE UNDER 37 CFR 1.8:

The undersigned hereby certifies that this Transmittal Letter and the paper, as described herein, are being deposited via First Class Mail in an envelope addressed to: Mail Stop Missing Parts, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on June 23, 2004.

By:   
Joseph Bennett-ParisREVOCATION AND POWER OF ATTORNEY

Mail Stop Missing Parts  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Please revoke any existing Powers of Attorney, if any, and appoint the following attorneys and/or patent agents to prosecute this application and to transact all business in the U.S. Patent and Trademark Office in connection therewith:

Ali, M. Jeffer	Reg. No. 46,359	Daley, Dennis R.	Reg. No. 34,994
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Mueller, Douglas P.	Reg. No. 30,300		
Nelson, Anna M.	Reg. No. 48,935		
Pauly, Daniel M.	Reg. No. 40,123		

Please direct all correspondence in this application to Merchant & Gould PC, P.O.

Box 2903, Minneapolis, MN 55402-0903, telephone 404.954.5100.

Dated: March 2, 2004

By: Kristin Chrudimsky  
 Kristin Chrudimsky  
 Director of Intellectual Property

